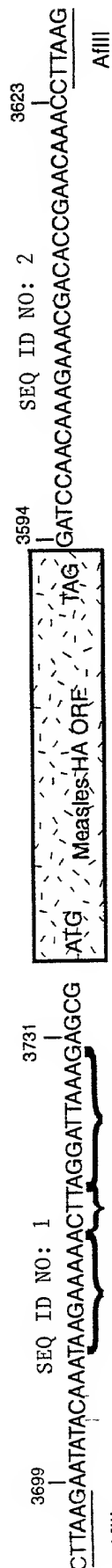


Measles HA insert for N-P and P-M junctions



N-P Junction

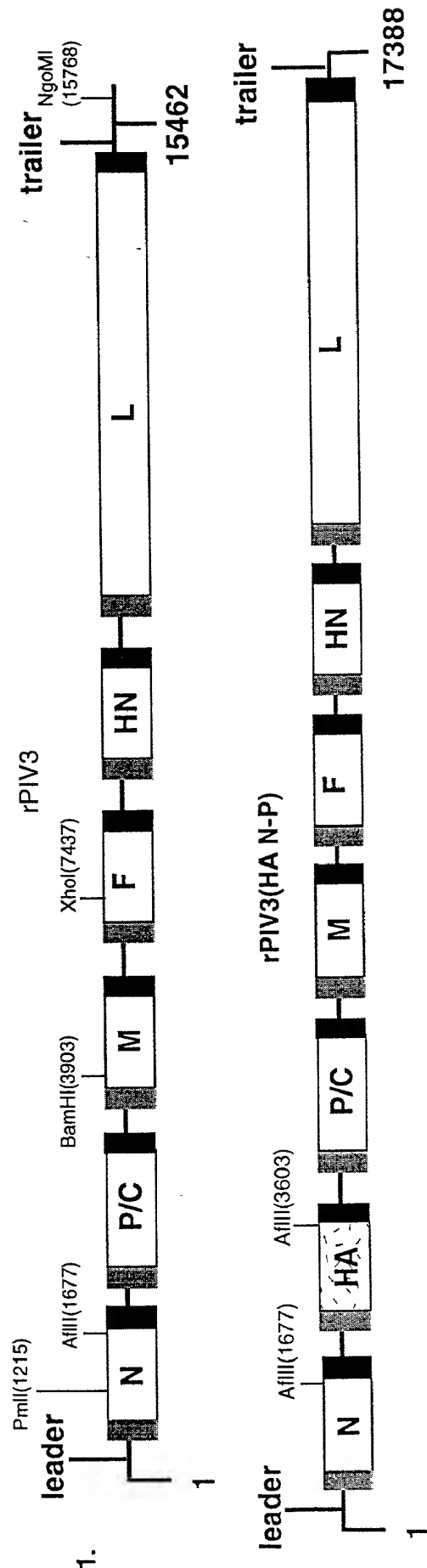
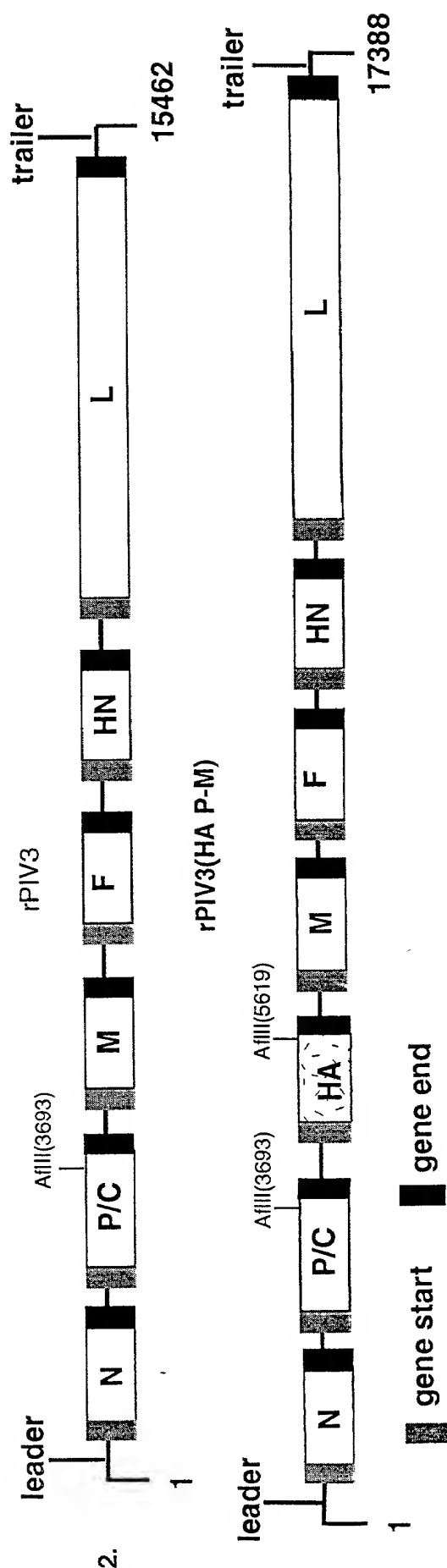


FIG. 1A

P-M Junction



Measles HA Insert for the HN-L junction

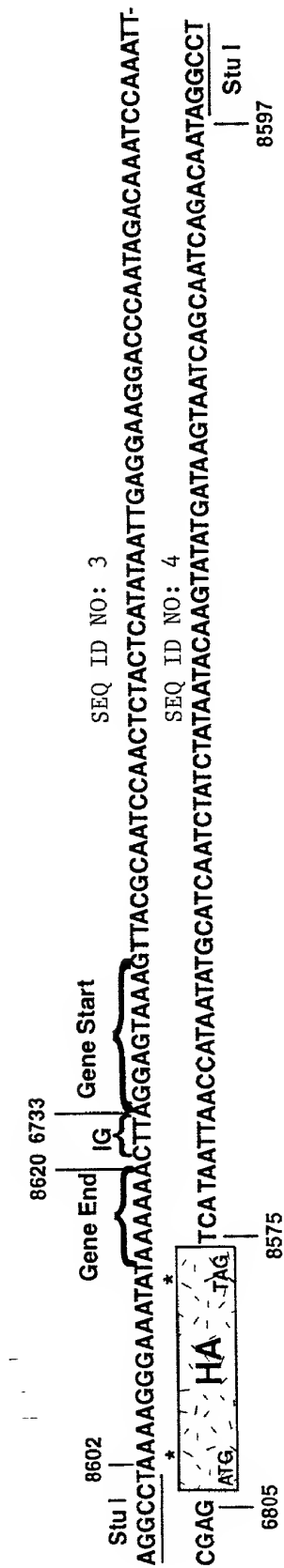
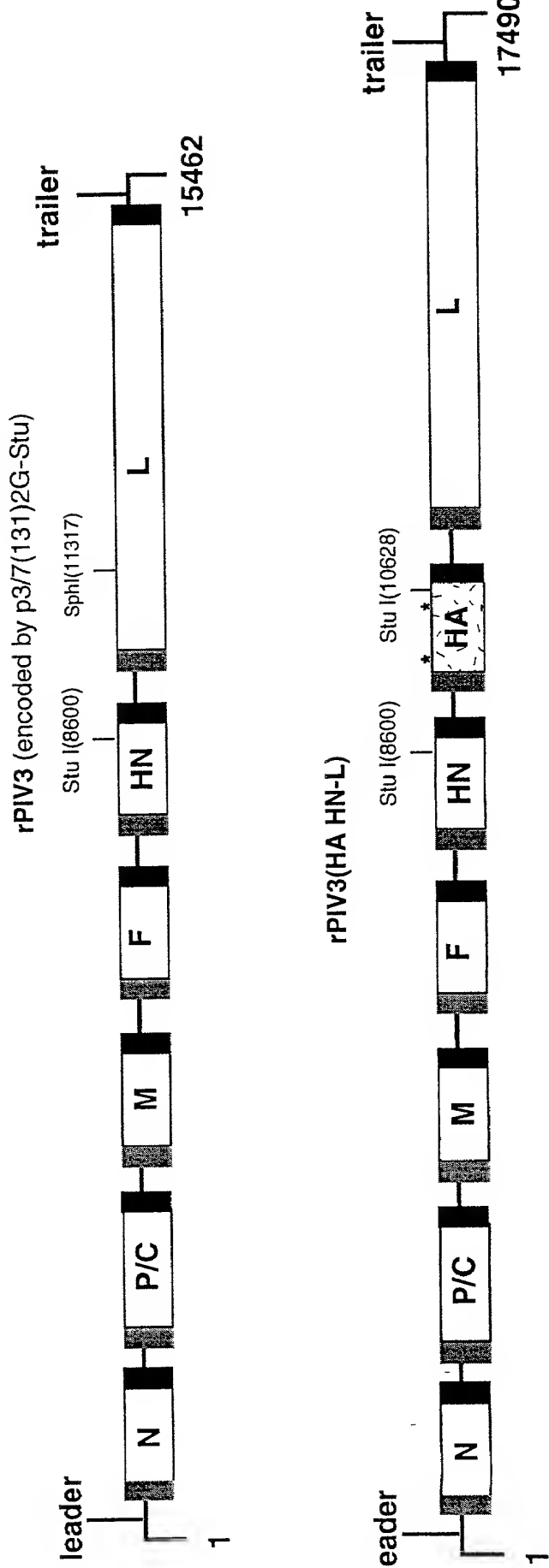


FIG. 1B



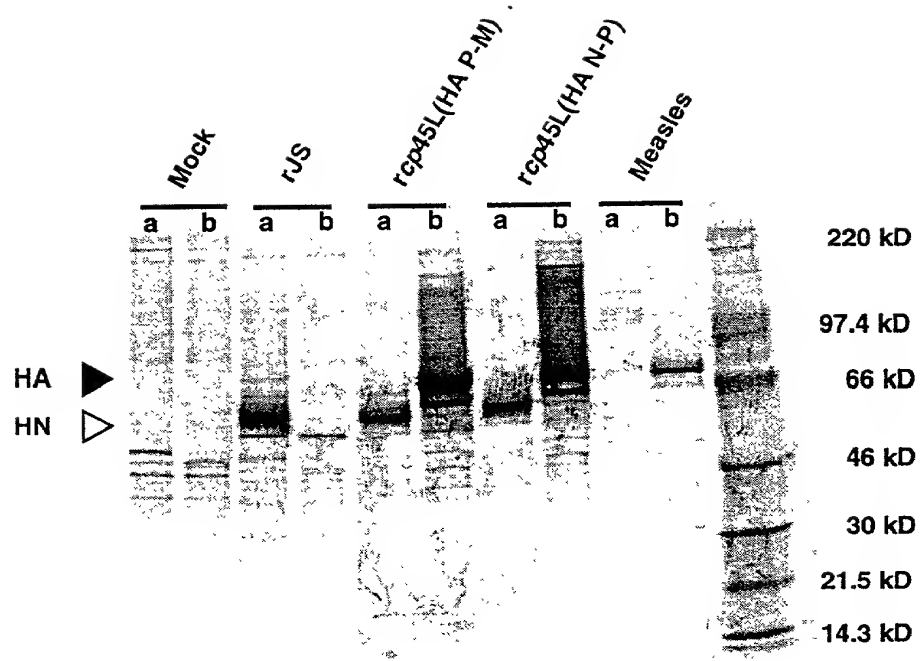


FIG. 2

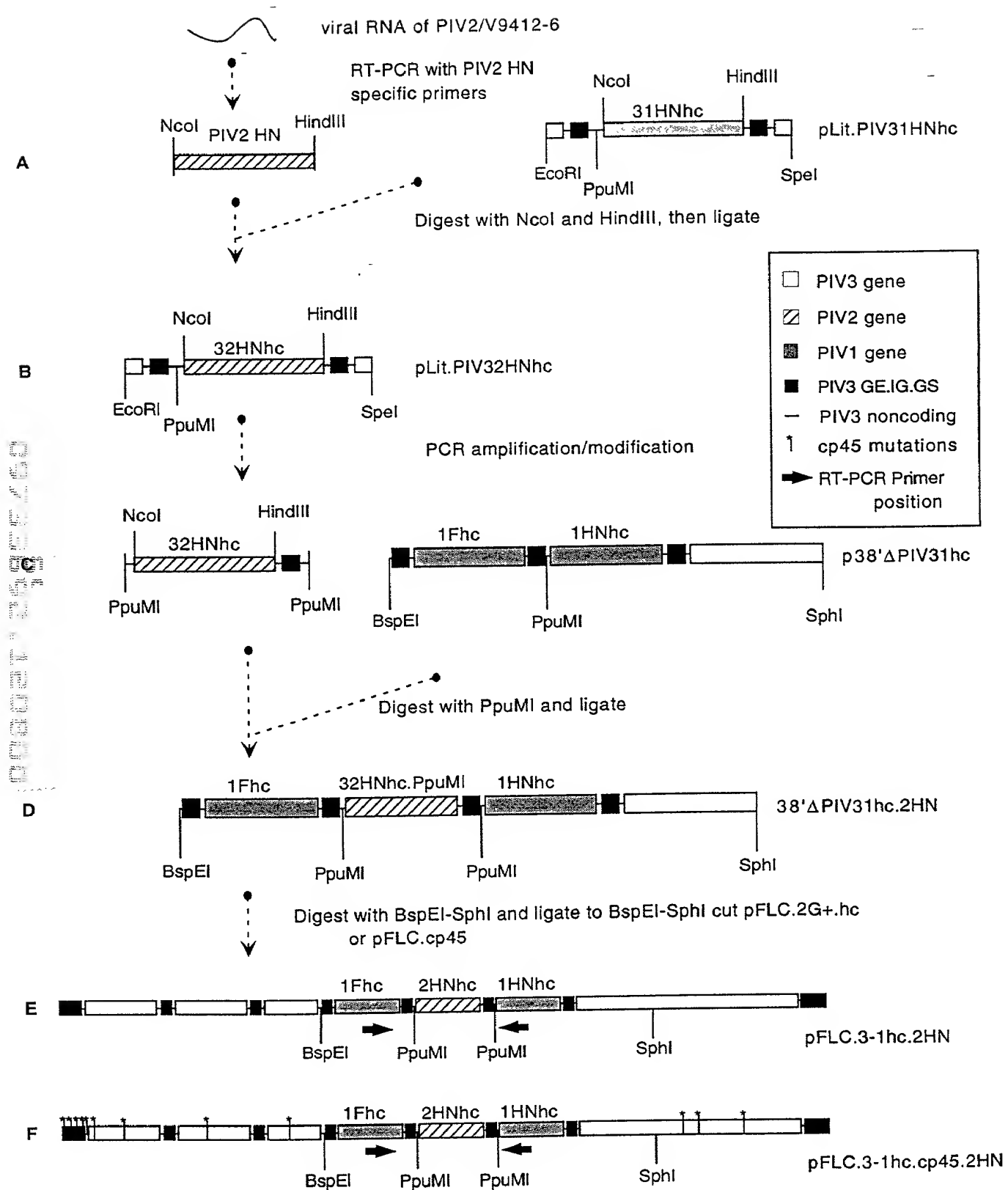


FIG. 3

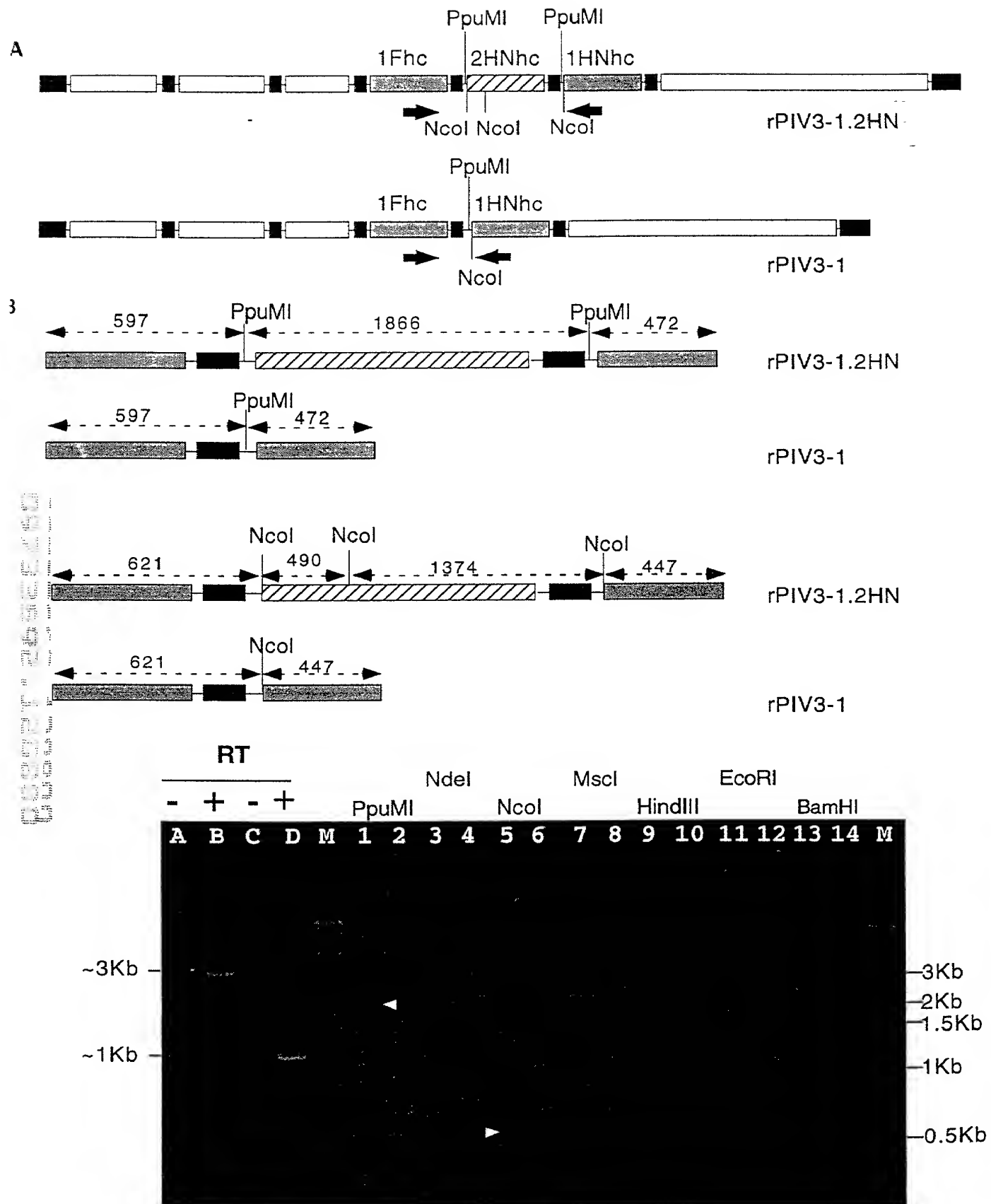


FIG. 4

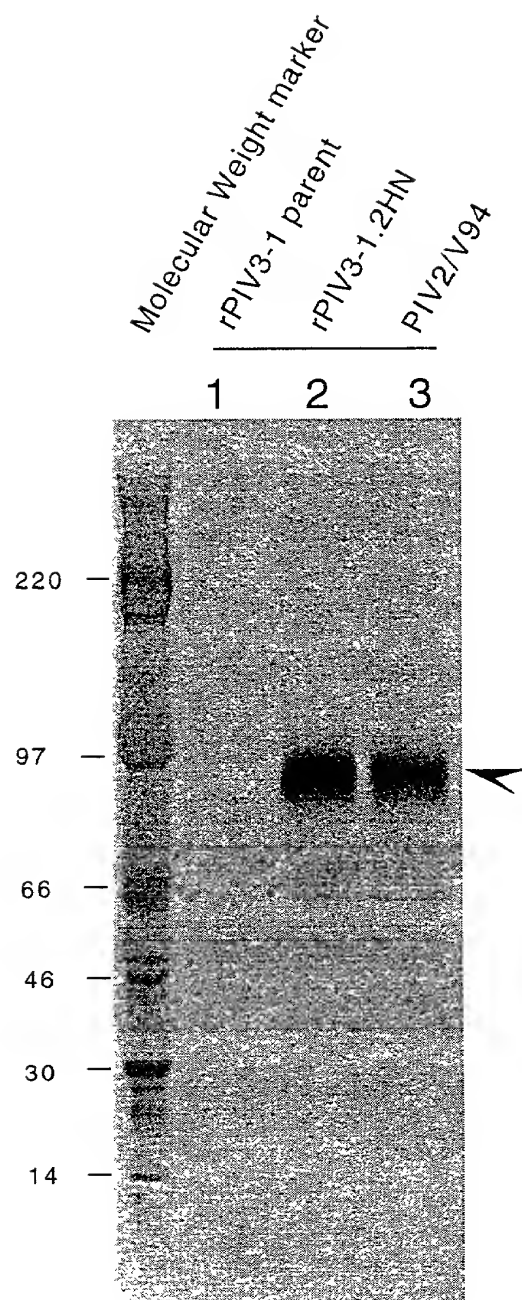
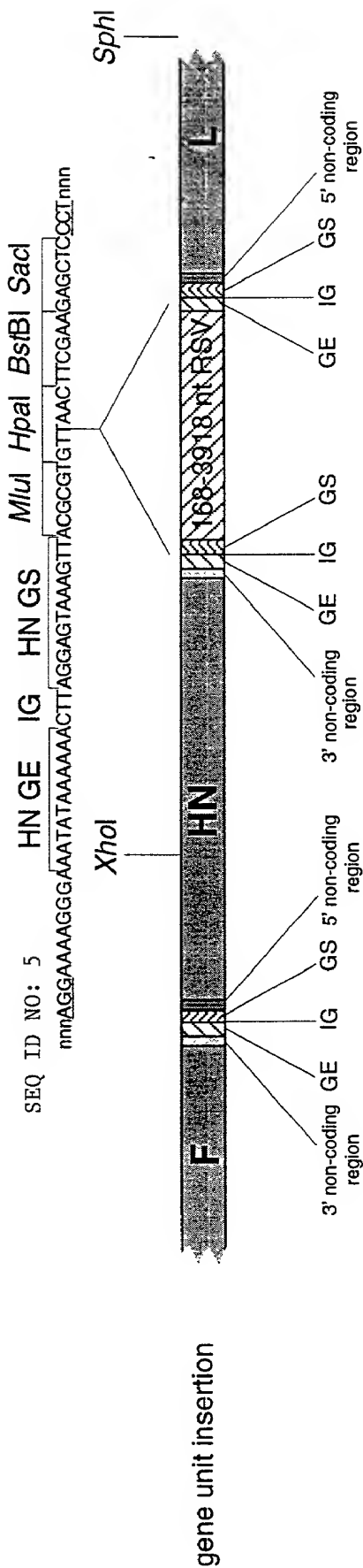


FIG. 5

A



B

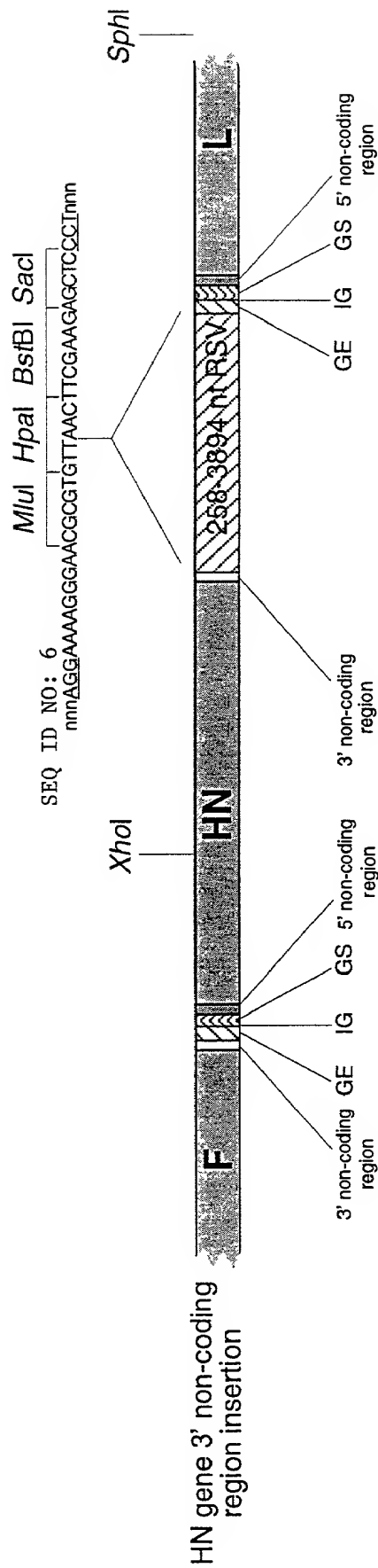


FIG. 6

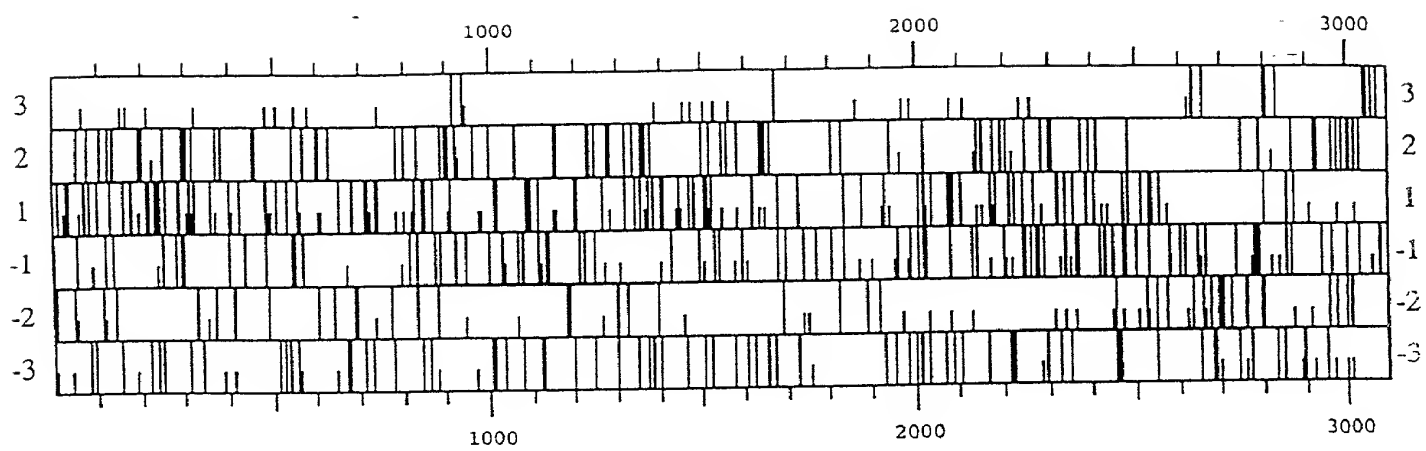
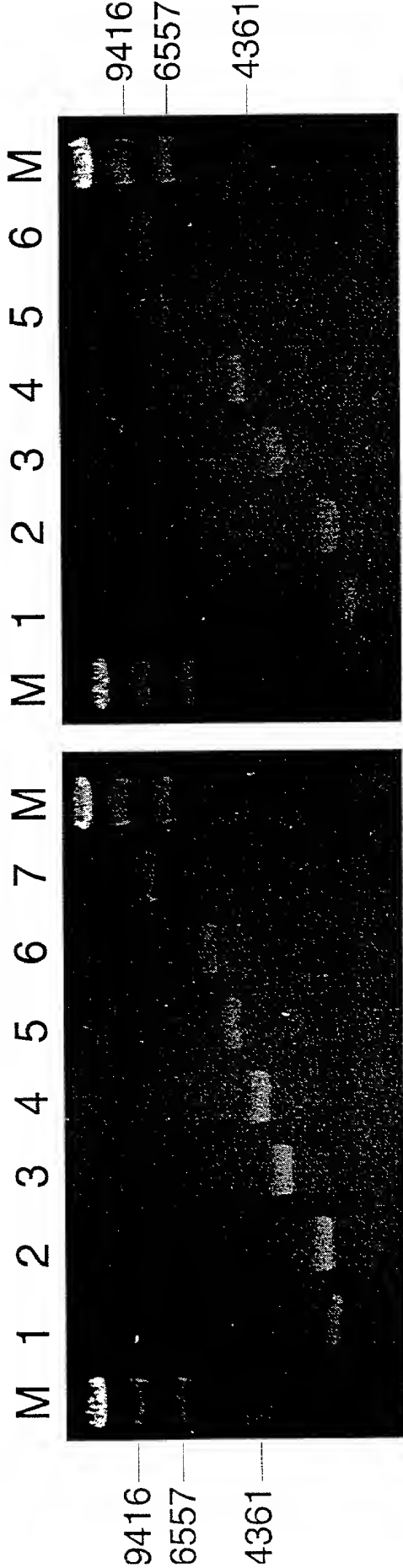


FIG. 7

A



B

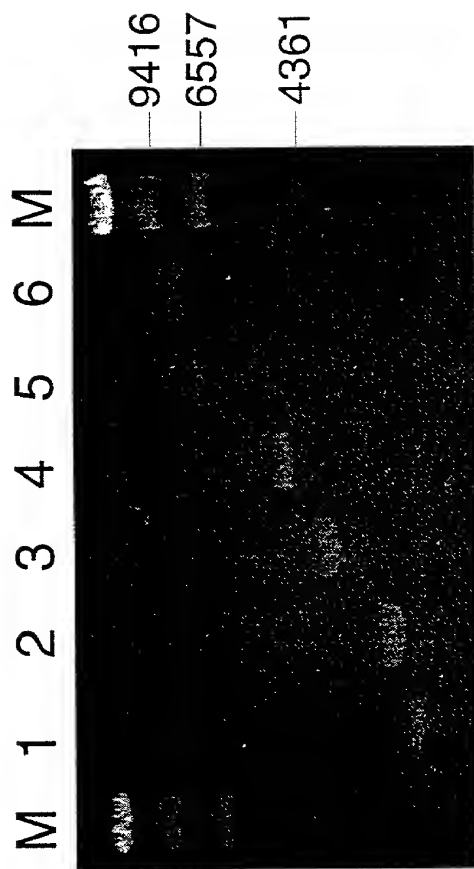


FIG. 8

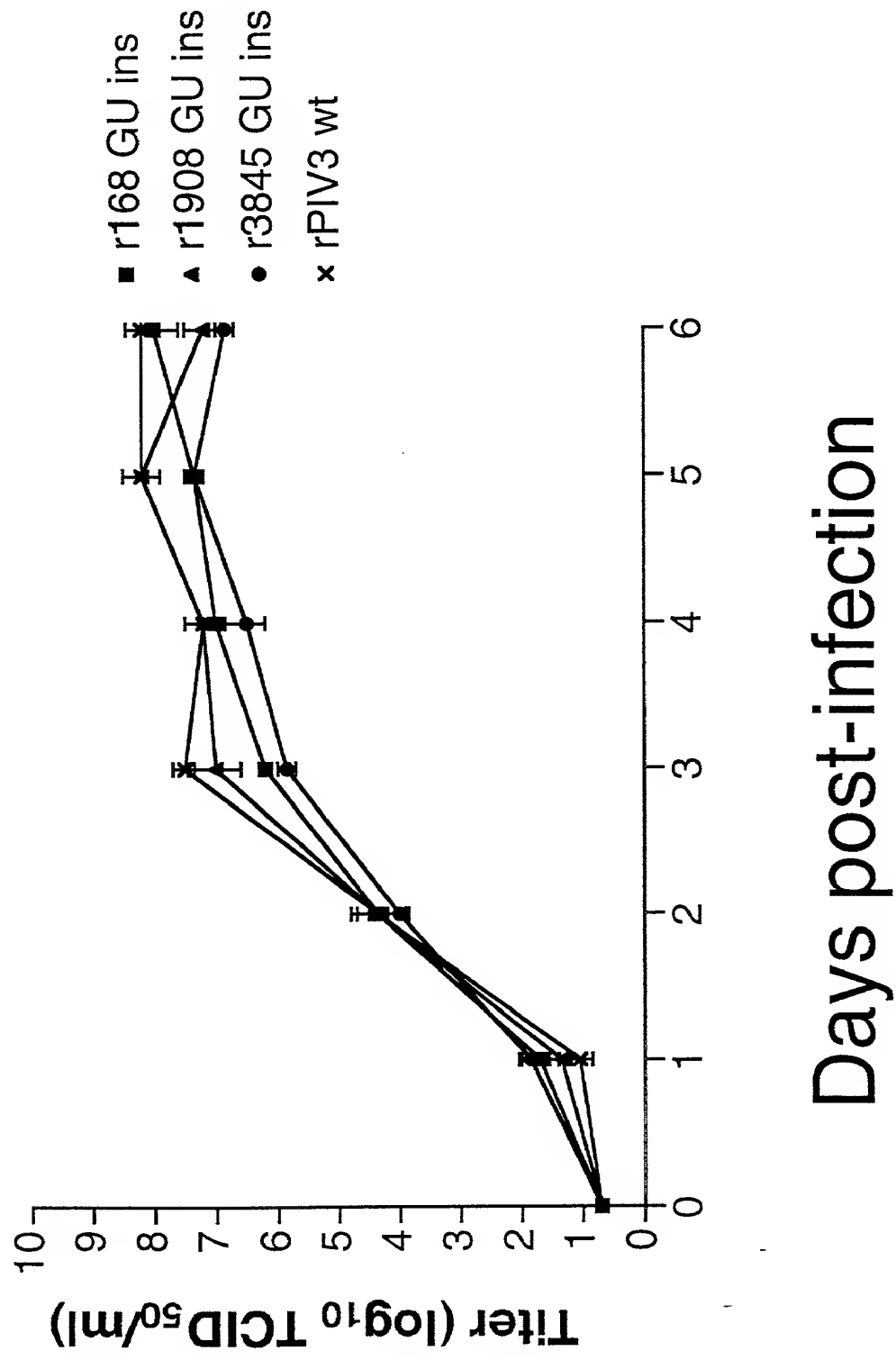


FIG. 9A

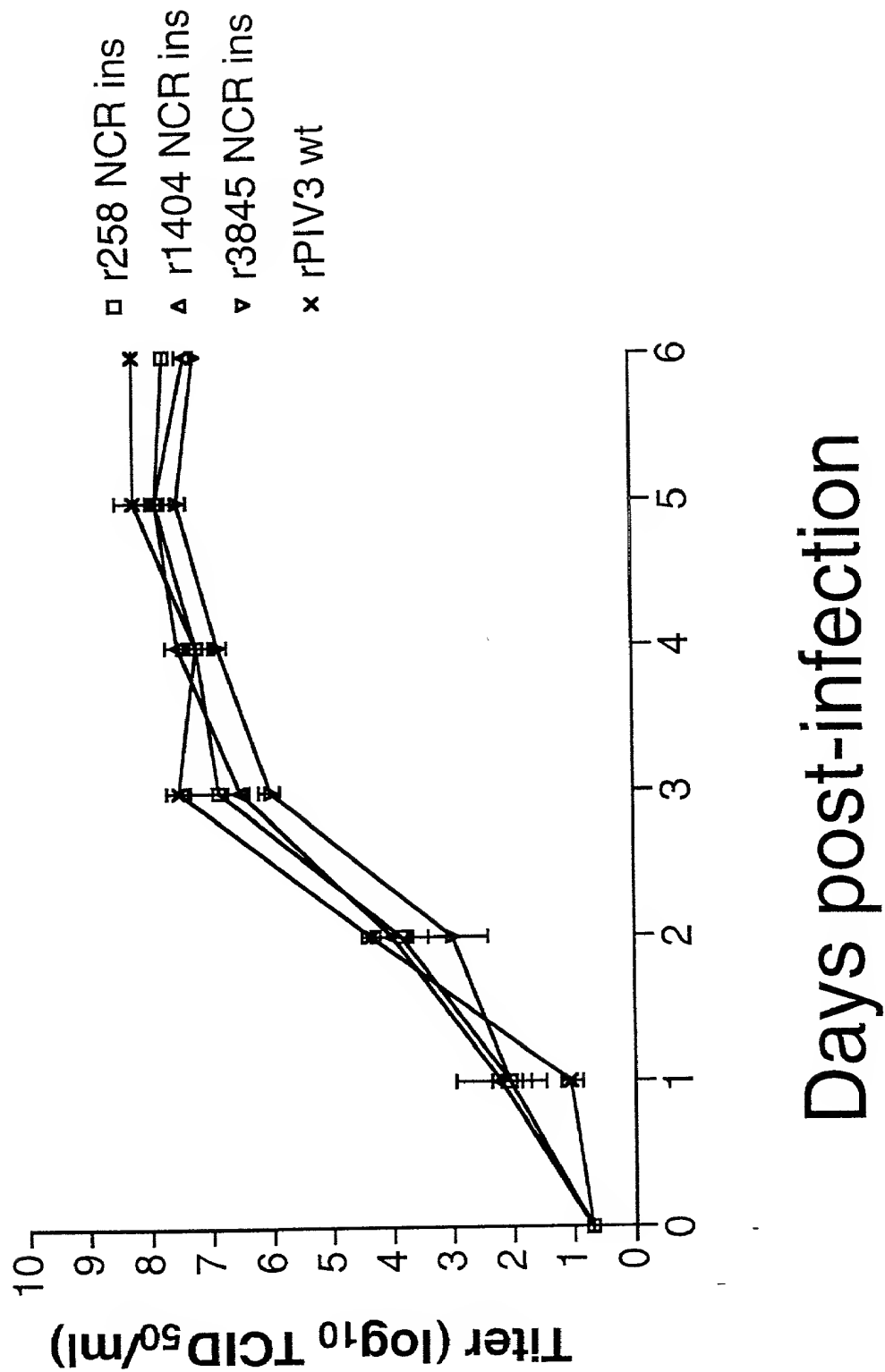


FIG. 9B

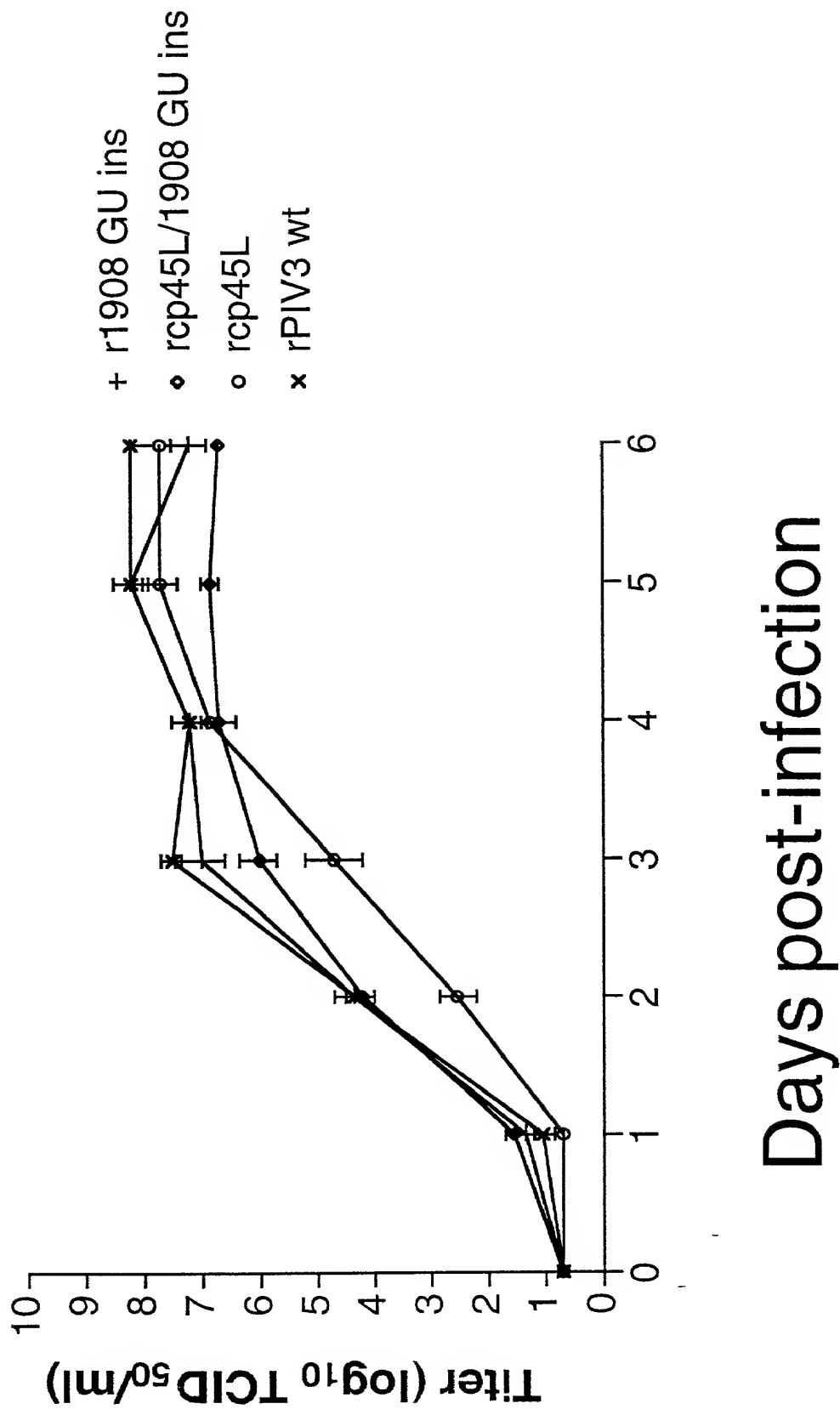


FIG. 9C

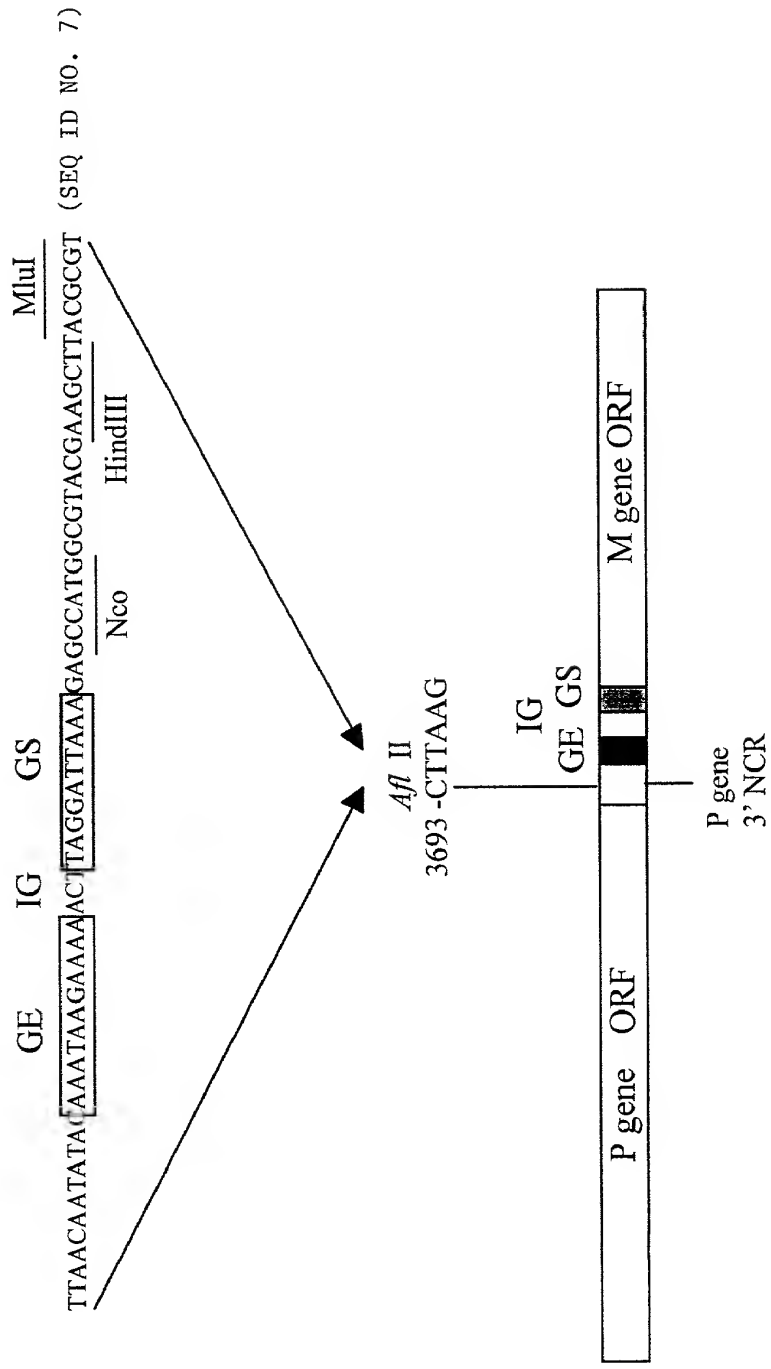


FIG. 10

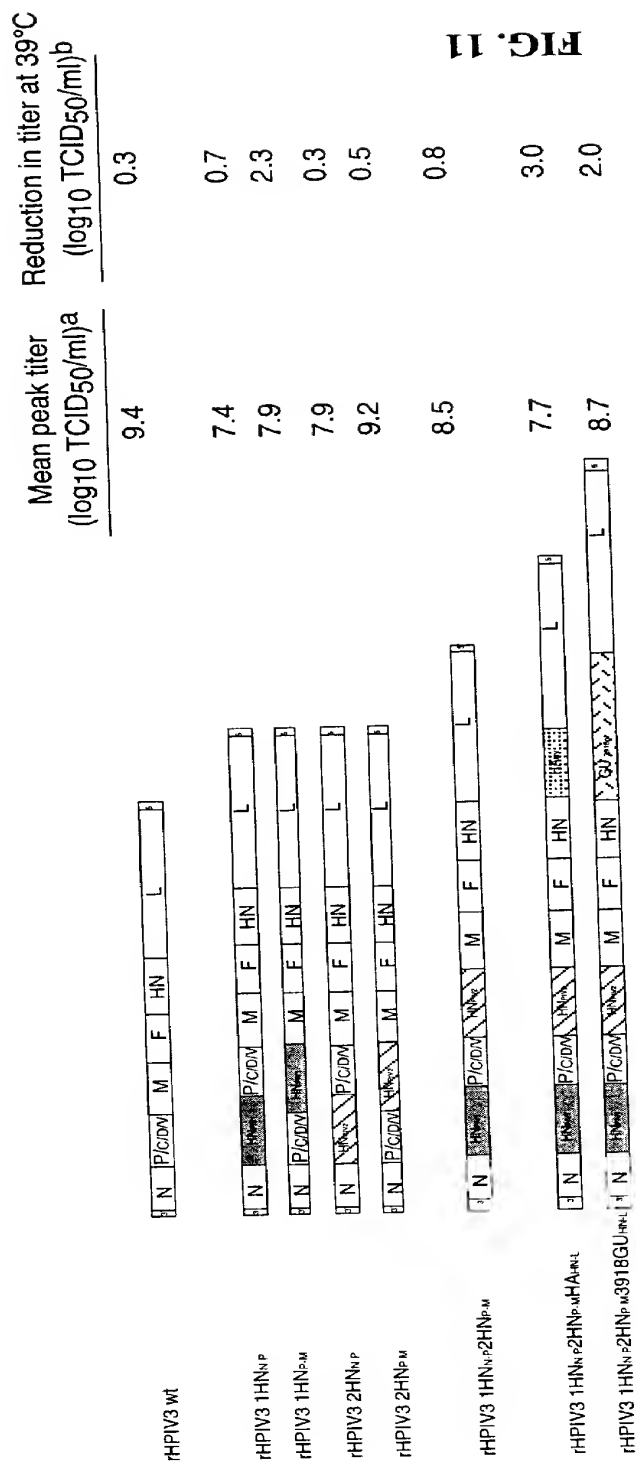


FIG. 11

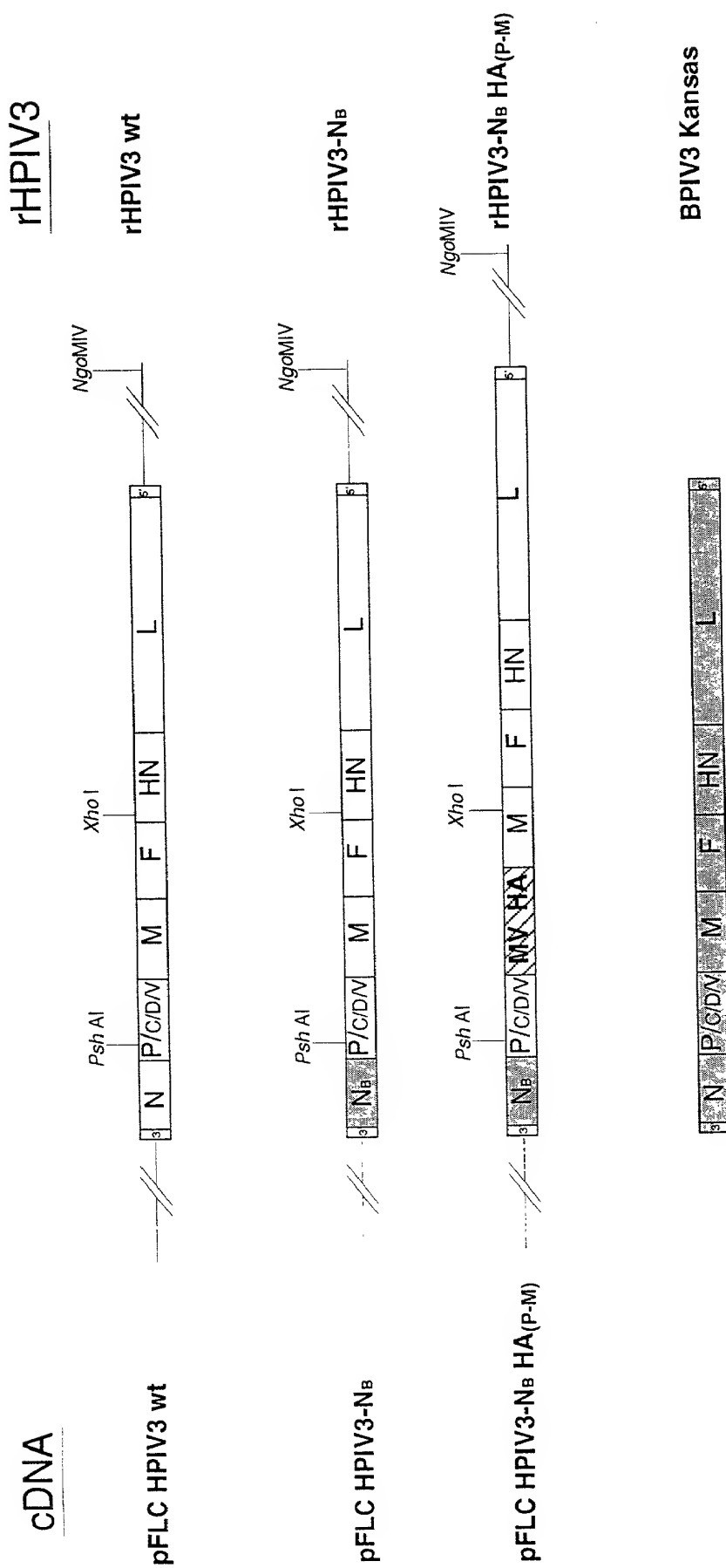


FIG. 12

Insertion of RSV G or F as an additional gene unit in a promoter-proximal position

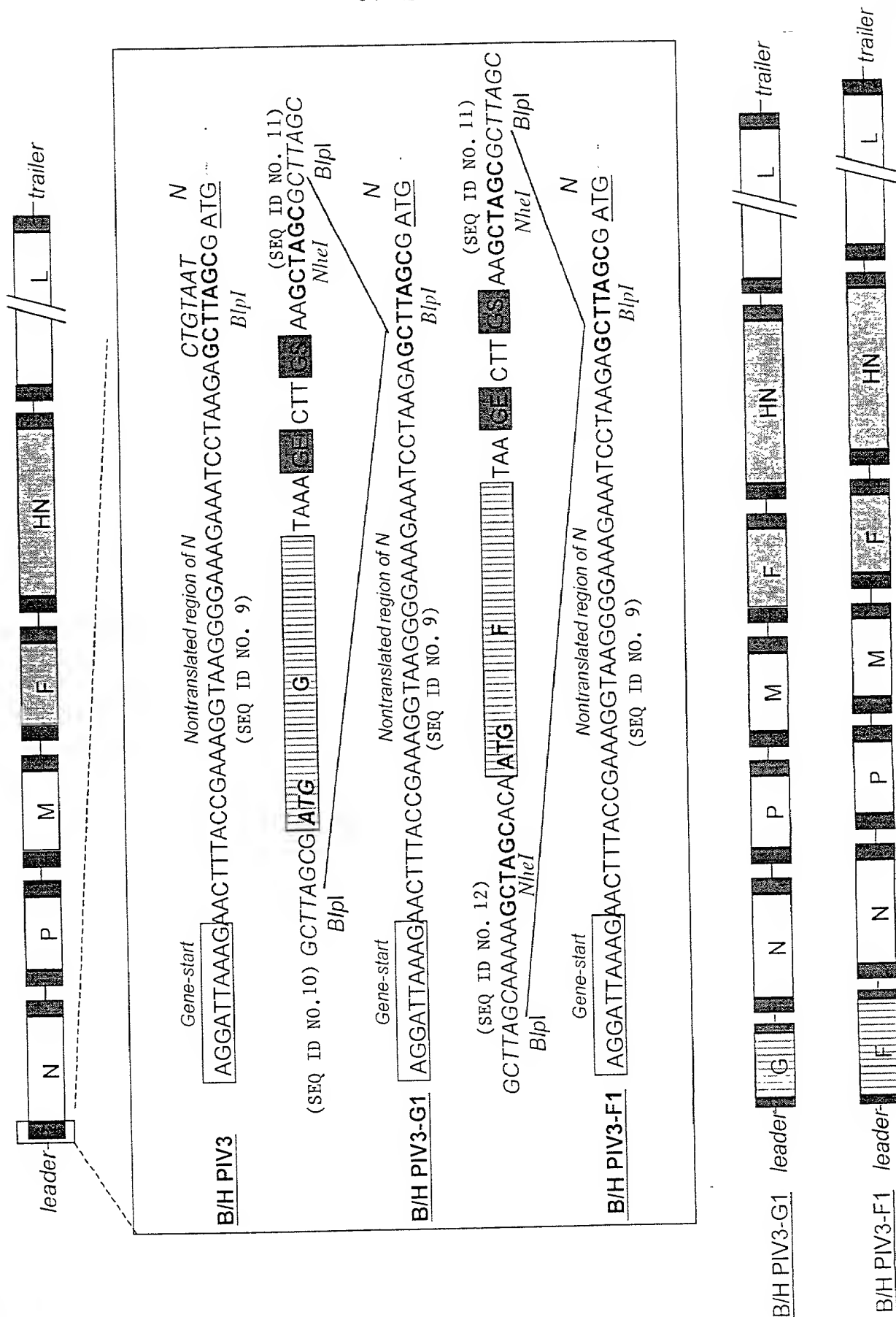


FIG. 13

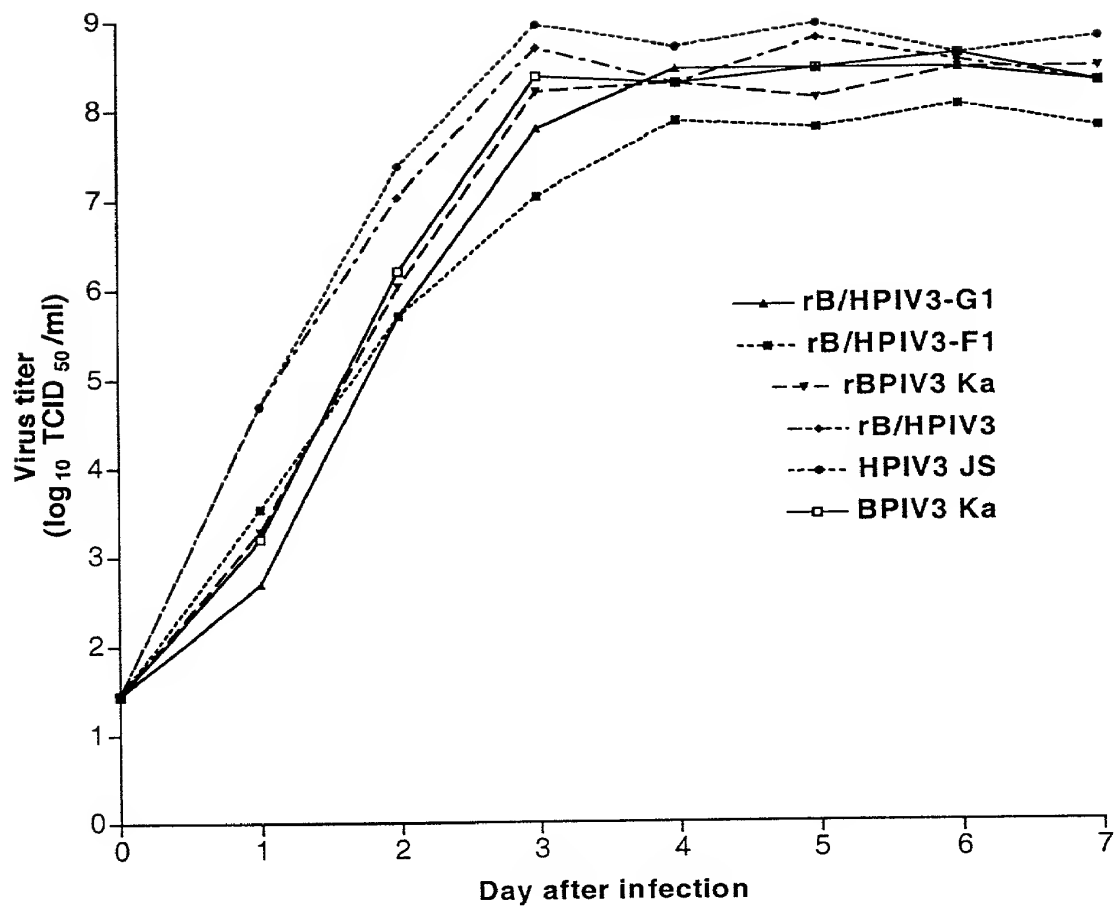


FIG. 14

Recombinant Bovine/Human PIV3.1 expressing HPIV2 F and HN from supernumerary genes

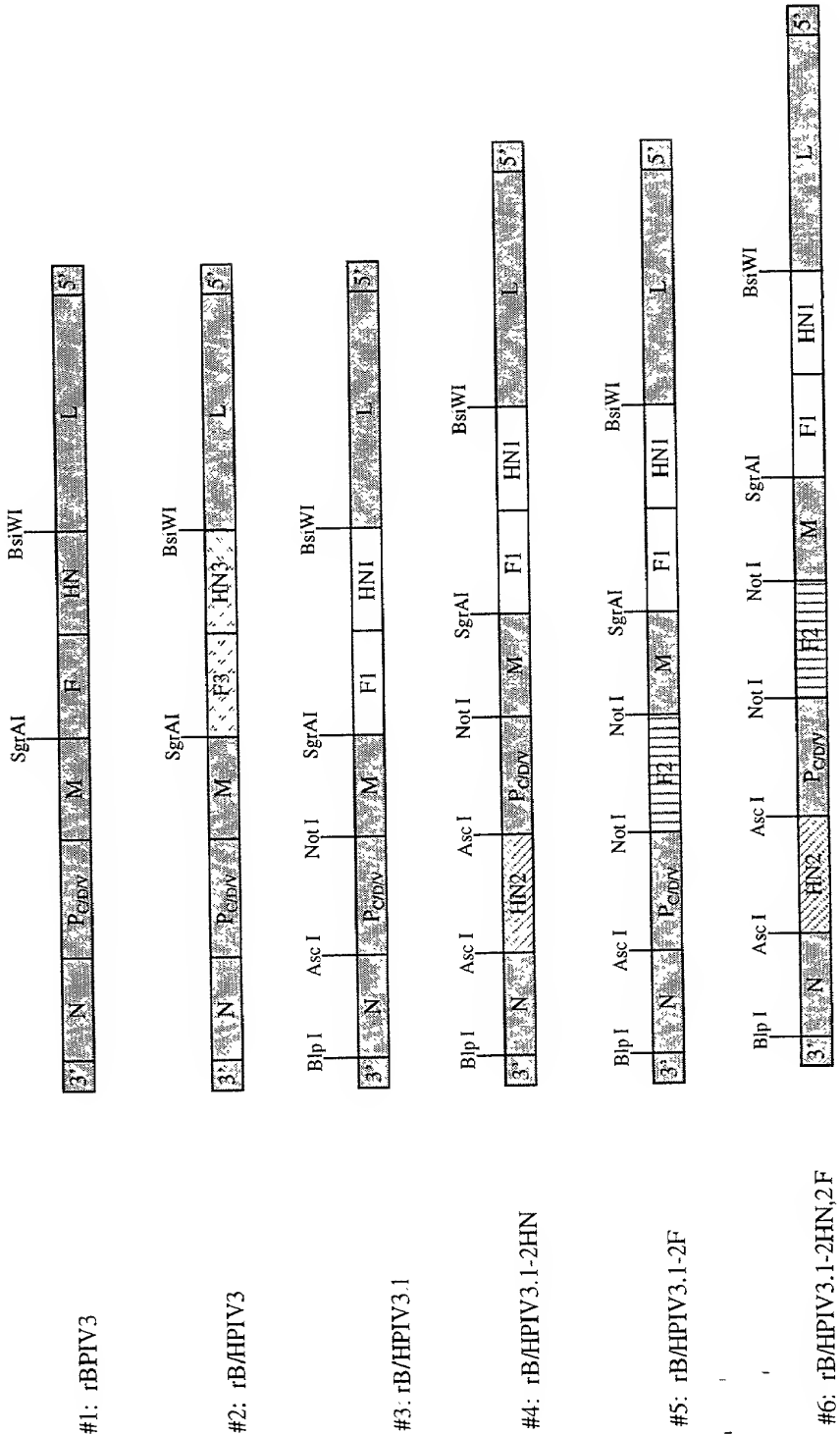


FIG. 15

cDNA

Virus

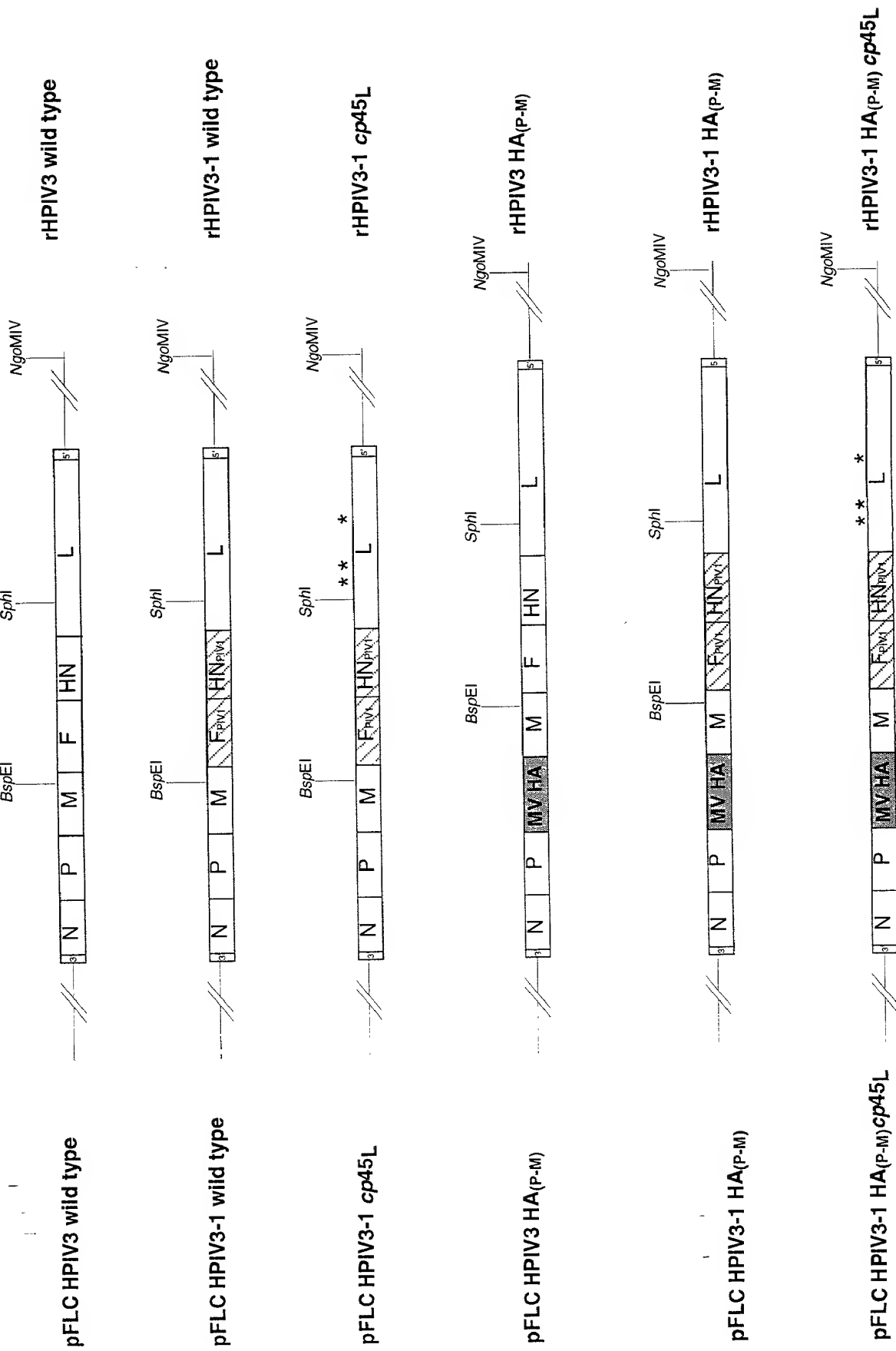


FIG. 16

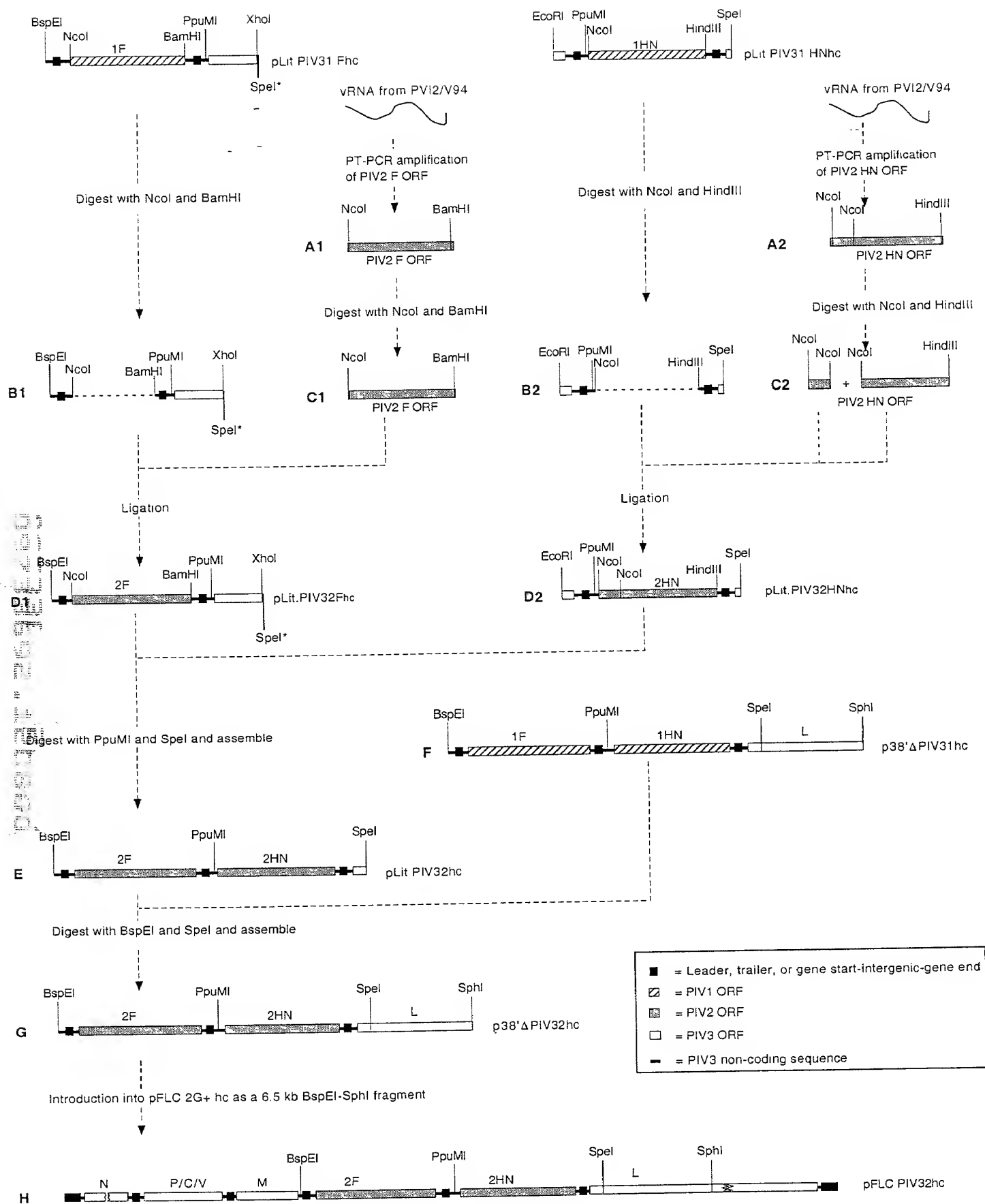


FIG. 17

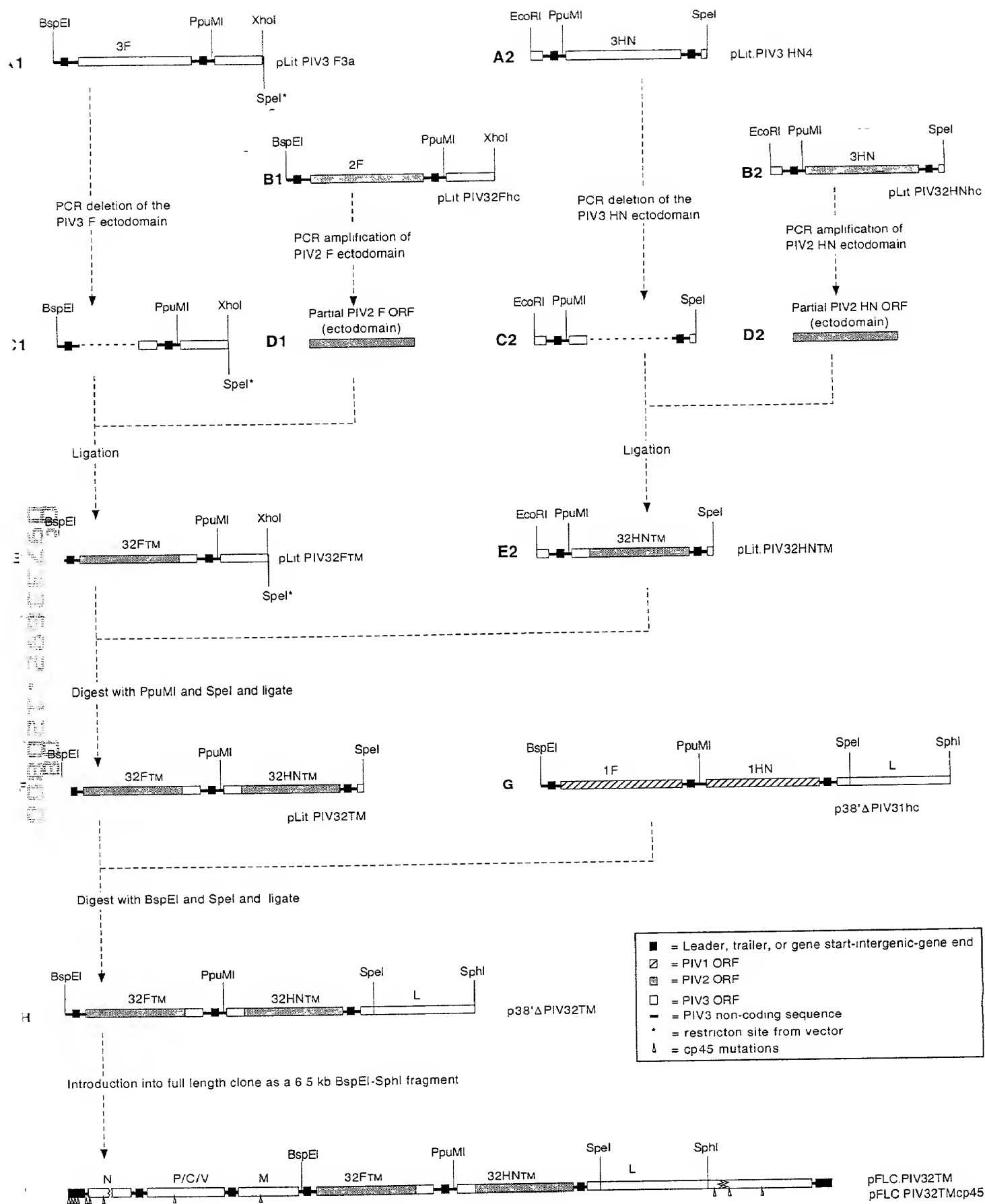


FIG. 18

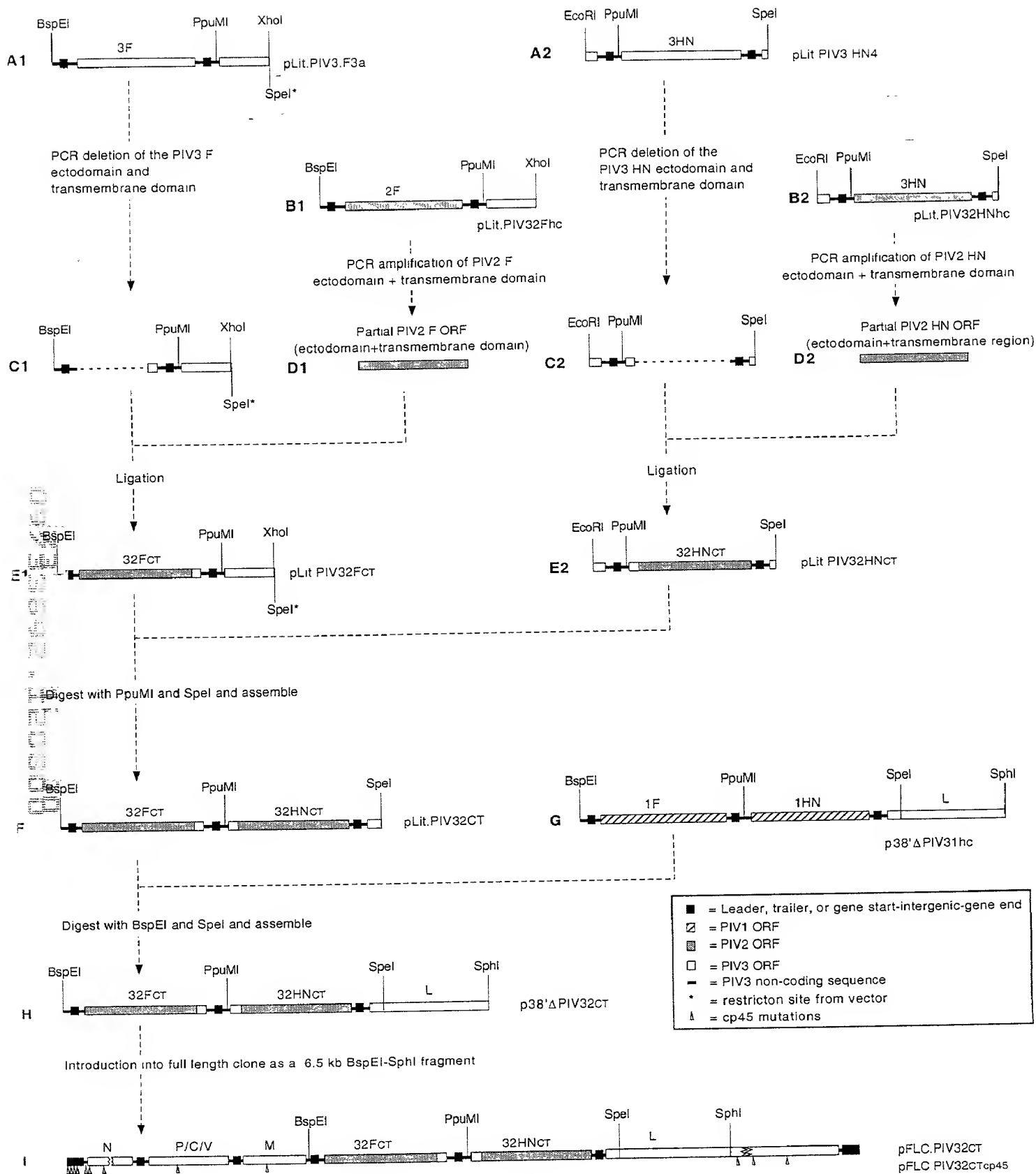
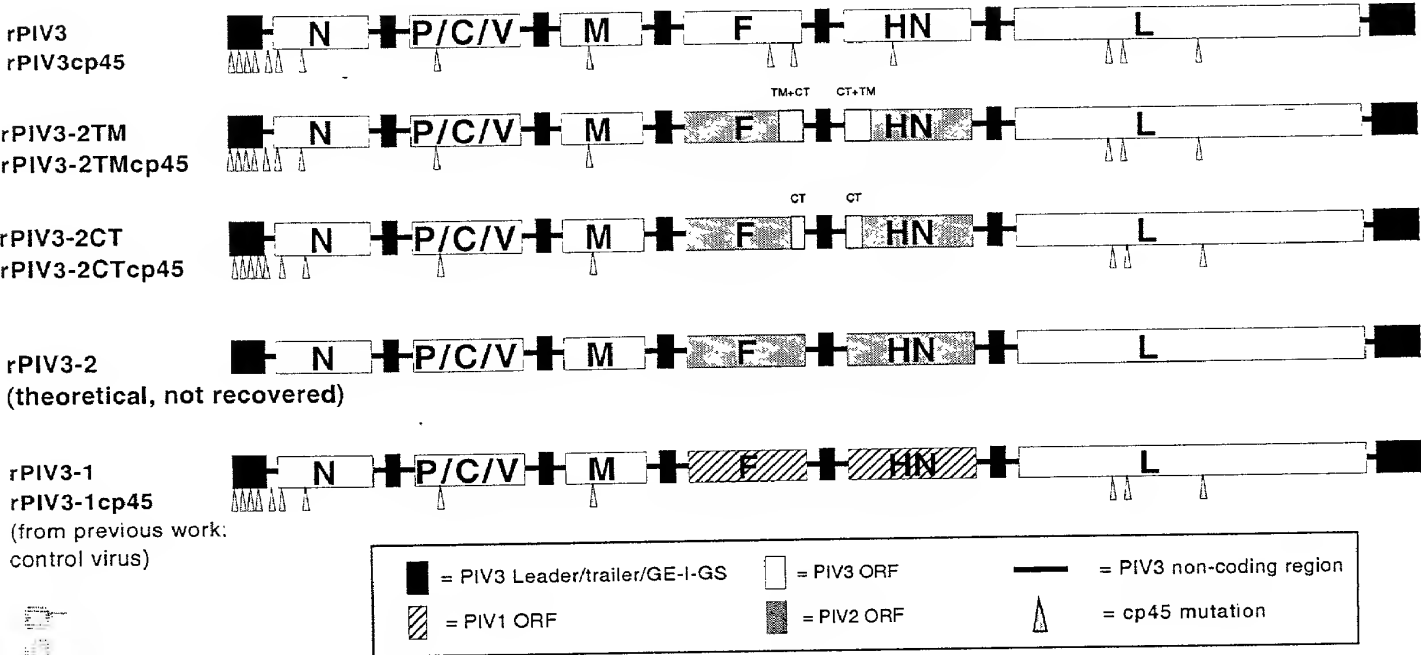
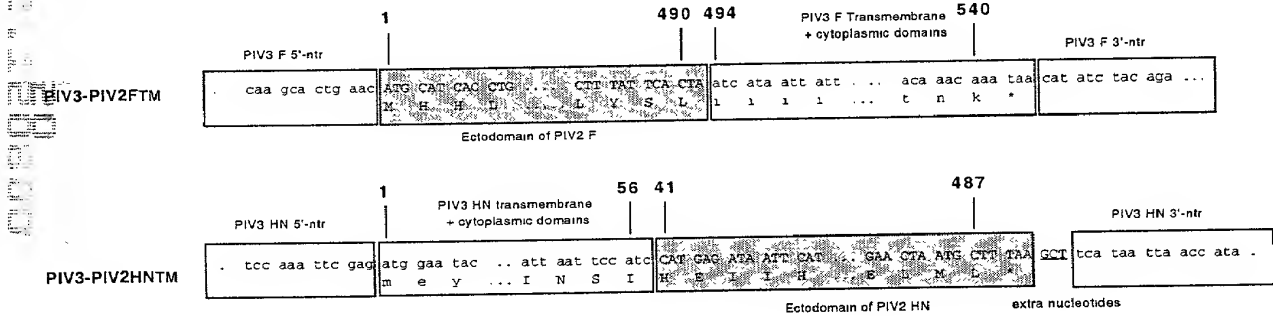


FIG. 19

A. Genetic structures of PIV3-2 chimeric viruses compared with rPIV3 parent and rPIV3-1



B. Chimeric PIV3-2 F and HN constructs with transmembrane and cytoplasmic domains derived from PIV3 F and HN



C. Chimeric PIV3-2 F and HN constructs with cytoplasmic domain derived from PIV3 F and HN

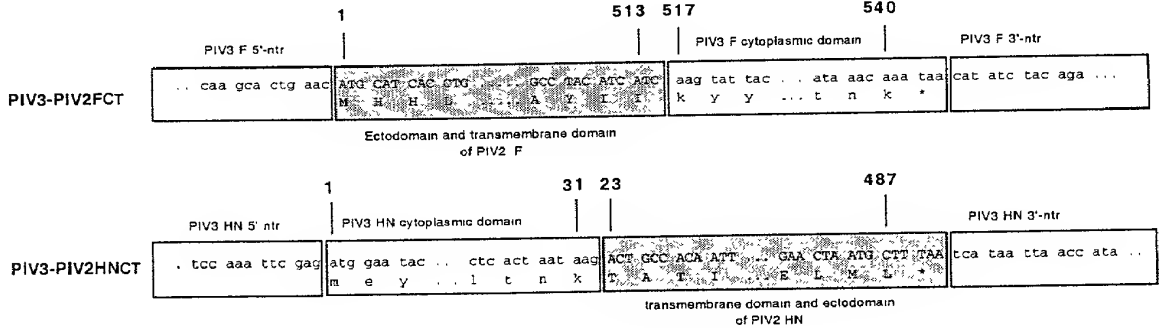
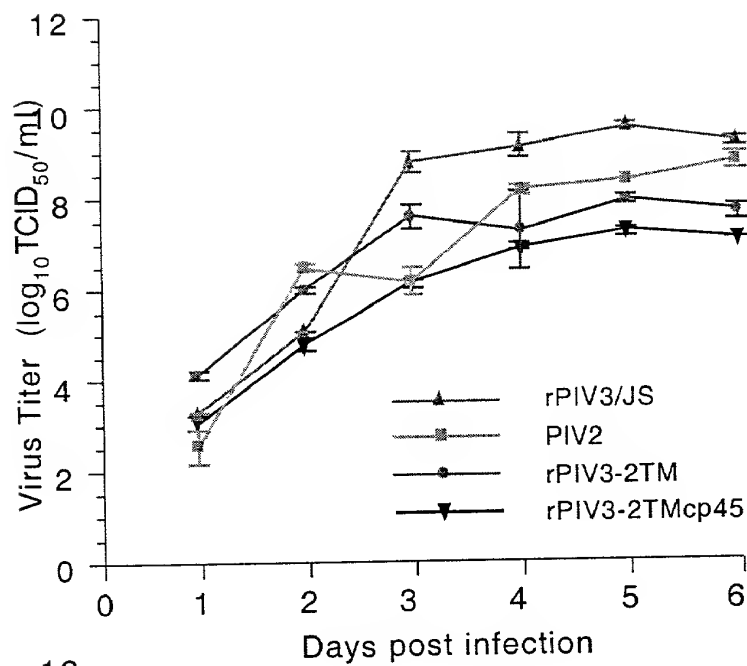
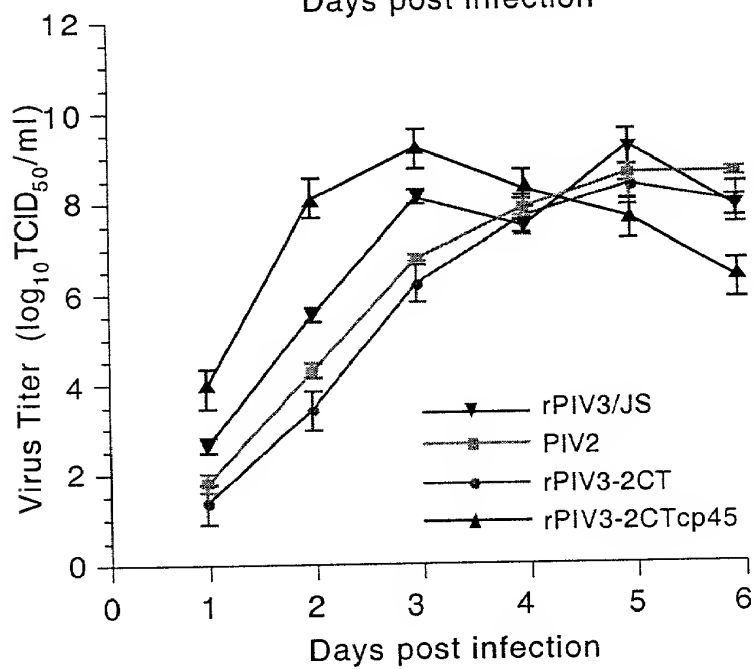


FIG. 20

A**B****FIG. 21**